

558, 433

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/107589 A2

- (51) International Patent Classification⁷: **H04B**
- (21) International Application Number:
PCT/KR2004/000283
- (22) International Filing Date: 12 February 2004 (12.02.2004)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
10-2003-0034962 30 May 2003 (30.05.2003) KR
10-2004-0007868 6 February 2004 (06.02.2004) KR
- (71) Applicant (for all designated States except US): LG ELECTRONICS, INC. [KR/KR]; 20, Yoido-Dong, Yongdungpo-Ku, Seoul 150-010 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BAEK, Seung-Myun [KR/KR]; Lucky Apt. 12-403, Banlim-Dong, Changwon-Shi, Kyungsangnam-Do 641-764 (KR). LEE,

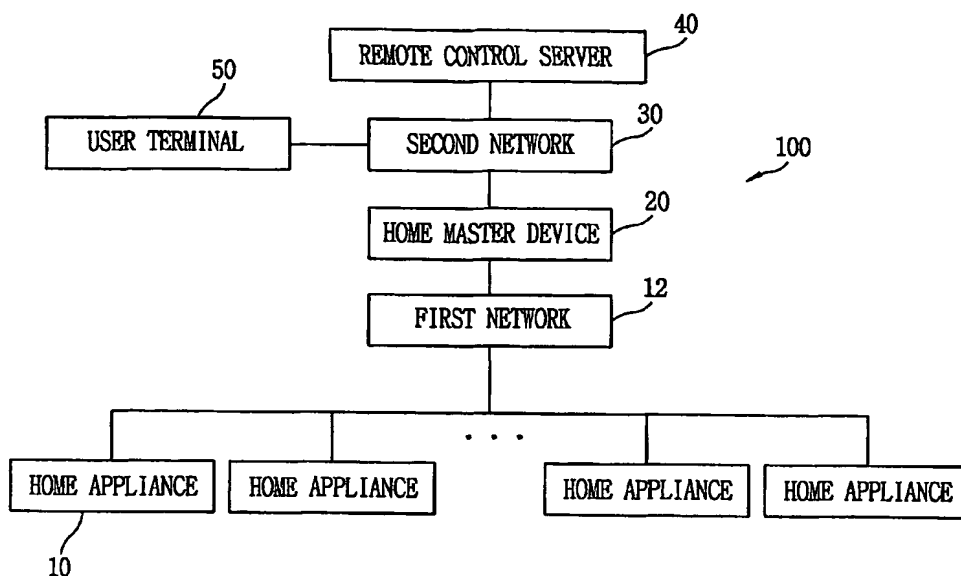
Koon-Seok [KR/KR]; Sungwon Apt. 102-1406, 45-1 Sangnam-Dong, Changwon-Shi, Kyungsangnam-Do 641-778 (KR). CHOI, Hwan-Jong [KR/KR]; 909-13, Manduk 3-Dong, Buk-Ku, Busan 616-829 (KR). KIM, Yong-Tae [KR/KR]; Daedong Apt. 1006-1504, Seok-bongmaeul, Mukea-Ri, Jangyou-Myun, Gimhae-Shi, Kyungsangnam-Do 621-833 (KR). KOO, Feel-Young [KR/KR]; Keukdong-Villa No. 407, 542, Minrak-Dong, Suyoung-Ku, Busan 613-829 (KR). KOO, Ja-In [KR/KR]; 336-28, Hadae-Dong, Jinju-Shi, Kyungsangnam-Do 660-997 (KR). KANG, Seong-Hwan [KR/KR]; 1128, Keunmeum-Ri, Seolcheon-Myun, Namhae-Kun, Kyungsangnam-Do 668-891 (KR).

(74) Agent: LEE, Kwang-Yeon; LEE & KIM, 5th Floor, New-Seoul Bldg., 828-8, Yoksam 1-Dong, Kangnam-Ku, Seoul 135-935 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

[Continued on next page]

(54) Title: HOME NETWORK SYSTEM



(57) Abstract: The present invention discloses a home network system which can achieve communication between a home master device and a remote control server by using a predetermined message structure. The home network system includes a home master device connected to a plurality of home appliances, and a remote control server connected to the home master device through a first network, for transmitting/receiving a message between a user terminal and the home master device. The message transmitted/received between the home master device and the remote control server includes at least a product code unit of the corresponding home appliance, a message code unit for notifying a transmission/reception direction of the message, parameter units under the definition of the message, and a number unit of parameters.

WO 2004/107589 A2



KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.